

II. Amendments to the Claims

This listing of claims will replace all prior versions, and listings of claims in the application:

Claims 1-13 (Cancelled).

14. (New) A posterior vertebral support assembly, comprising:
 - an interspinous wedge configured to be inserted between the spinous processes of two vertebrae, wherein the wedge includes at least one elastically deformable zone;
 - two compressive lateral elements disposed on either side of the wedge in a longitudinal direction, wherein the compressive lateral elements are deformable between releasing positions and compressive positions; and
 - two lateral transmission elements disposed between the compressive lateral elements and the wedge, and configured to selectively press against the wedge in the transverse direction near the elastically deformable zone.
15. (New) The support assembly of claim 14 wherein the zone has a limit of compressibility in the transverse direction, and wherein the limit is reached at a predetermined tilted position.
16. (New) The support assembly of claim 14 wherein the compressive lateral elements have a limit of deformation in the transverse direction, and wherein the limit is reached at a predetermined tilted position.
17. (New) The support assembly of claim 14 wherein the compressive lateral elements are elastically deformable between the releasing and compressive positions.
18. (New) The support assembly of claim 14 wherein the compressive lateral elements are elastically deformable generally along an axis of the spine.

19. (New) The support assembly of claim 14 wherein the compressive lateral elements are independent of one another, and wherein each element is connected to a treated vertebra with one end and to another treated vertebra by its other end.

20. (New) The support assembly of claim 14 wherein the compressive lateral elements include eyelets or anchorage pieces designed to receive pedicular anchorage screws.

21. (New) The support assembly of claim 14 wherein the compressive lateral elements are adapted to pass beneath the laminae of the overlying vertebra.

22. (New) The support assembly of claim 14 wherein the compressive lateral elements are configured to connect to an interpedicular transverse connecting bar, wherein the connecting bar is placed on the underlying vertebra.

23. (New) The support assembly of claim 14 wherein the compressive lateral elements are connected to a connecting bar, the connecting bar joined to a system of arthrodesis of the two underlying vertebrae.

24. (New) The support assembly of claim 14 wherein the lateral transmission elements are small bars disposed between the compressive lateral elements and the wedge.

25. (New) The support assembly of claim 14 wherein the lateral transmission elements are bosses disposed between the compressive lateral elements and the wedge.

26. (New) The support assembly of claim 14 wherein the compressive lateral elements are deformable between releasing positions, which they occupy when the

vertebrae are in lordosis or when the spinal column is extended, and wherein they are relatively spaced apart from the wedge in the transverse direction, and compressive positions, which they occupy when the spinal column is in flexion, and wherein they are relatively close to the wedge in the transverse direction.

27. (New) The support assembly of claim 26 wherein the two lateral transmission elements are disposed in a manner to press against the wedge in the transverse direction when the compressive lateral elements are displaced in said compressive position.

28. (New) A posterior vertebral support assembly, comprising:
an interspinous wedge configured to be inserted between the spinous processes of two vertebrae, wherein the wedge includes at least one elastically deformable zone;

a circular strap engageable round at least two spinous processes and the wedge, the strap forming a first and a second compressive lateral element disposed on opposing lateral sides of the wedge, the first and second compressive lateral elements being configured to maintain the position of the wedge; and

first and second lateral transmission elements disposed respectively between the first compressive lateral element and the wedge and the second compressive lateral element and the wedge, the first and second lateral transmission elements being adapted to press against the wedge in the transverse direction.

29. (New) The support assembly of claim 28 wherein the first and second lateral transmission elements are each a small bar disposed between the compressive lateral elements and the wedge.

30. (New) The support assembly of claim 28 wherein the first and second lateral transmission elements are each bosses disposed between the compressive lateral elements and the wedge.

31. (New) The support assembly of claim 30 wherein the bosses are integral with the wedge.

32. (New) The support assembly of claim 30 wherein the wedge includes recesses designed to receive the bosses.

33. (New) The support assembly of claim 28 wherein the wedge comprises two curved recesses with each recess bounded by two lugs, the lugs and recesses adapted to broadly envelope the spinous processes.